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Fig. 1

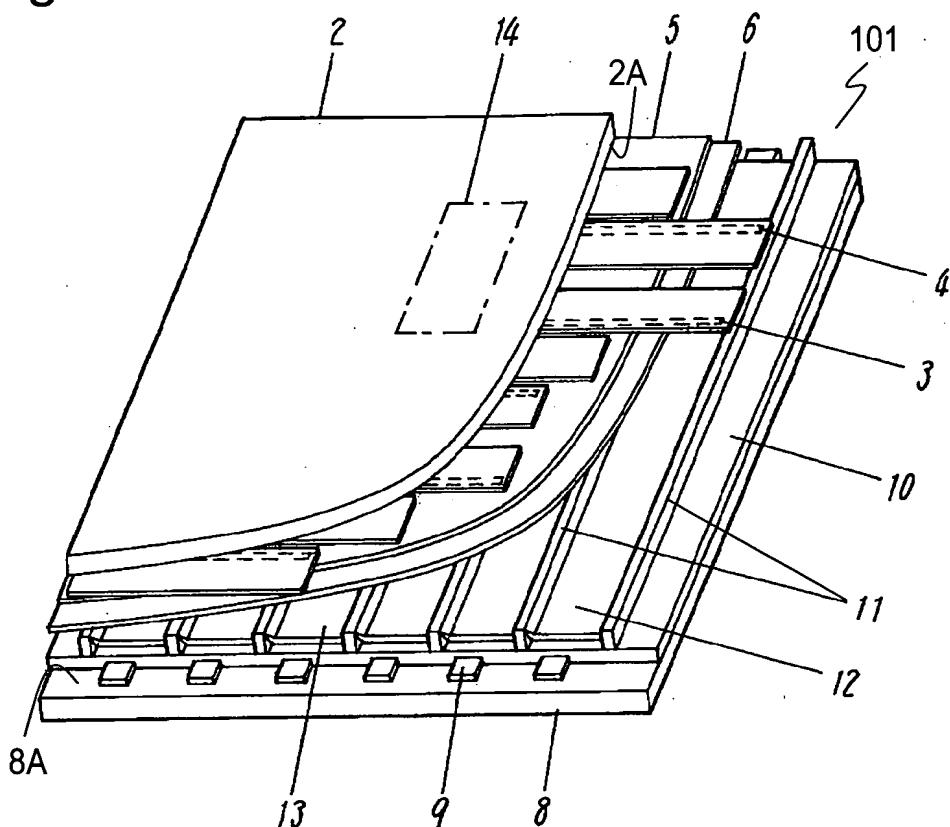
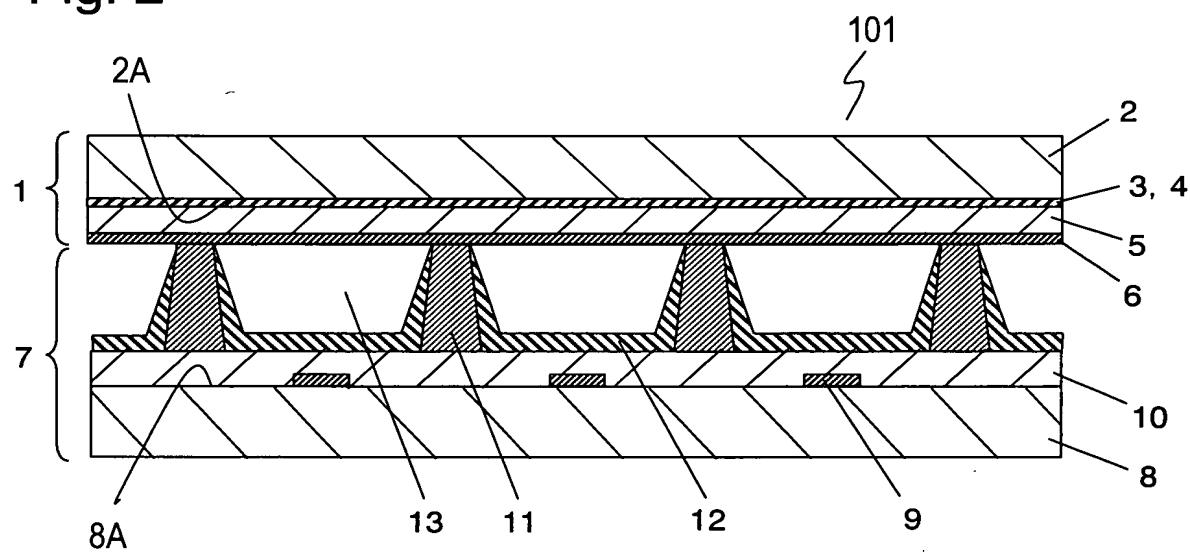
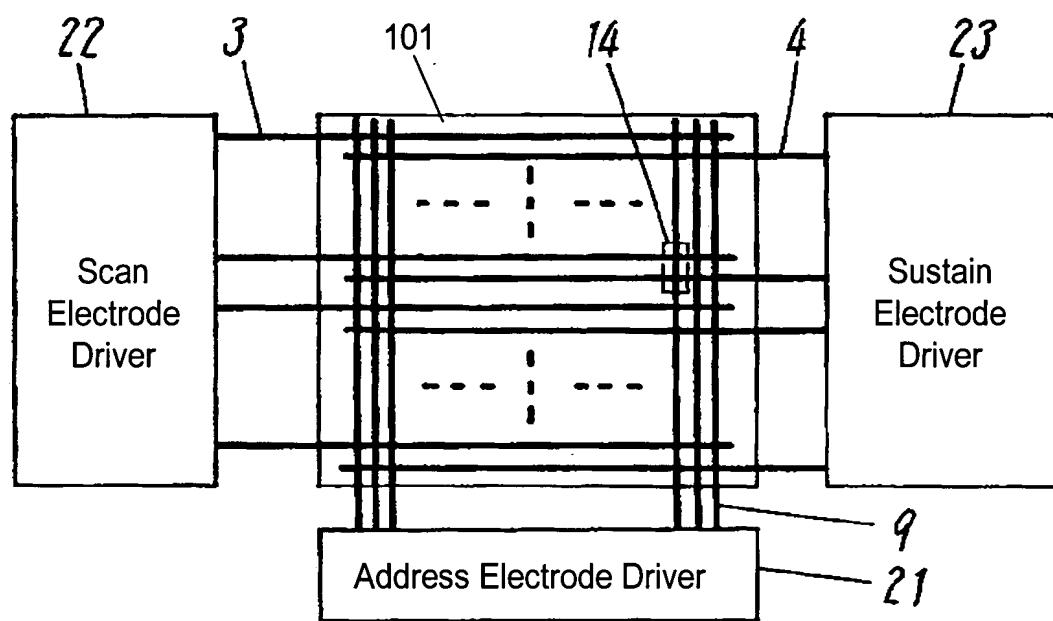


Fig. 2



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Fig. 3



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Fig. 4

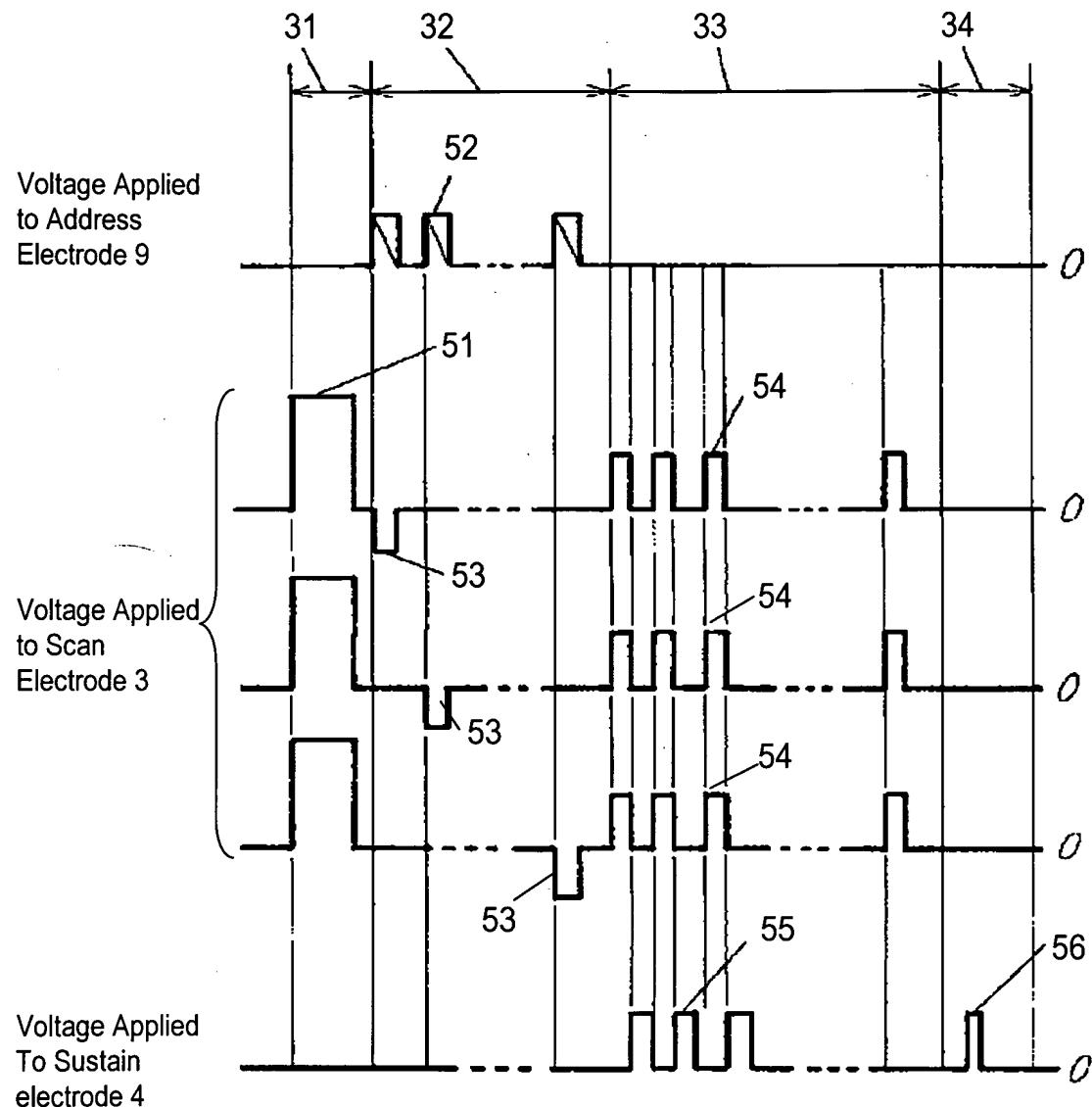


Fig. 5

Sample No.	Magnesium Carbide		Activation Energy	Flicker on Screen
	Composition	Concentration (ppm by weight)		
1	MgC <sub>2</sub>	50	0.29	None
2	MgC <sub>2</sub>	200	0.28	None
3	MgC <sub>2</sub>	1000	0.24	None
4	MgC <sub>2</sub>	7000	0.26	None
5	Mg <sub>2</sub> C <sub>3</sub>	50	0.28	None
6	Mg <sub>2</sub> C <sub>3</sub>	70	0.29	None
7	Mg <sub>2</sub> C <sub>3</sub>	500	0.25	None
8	Mg <sub>2</sub> C <sub>3</sub>	2000	0.25	None
9	Mg <sub>2</sub> C <sub>3</sub>	7000	0.29	None
10	Mg <sub>3</sub> C <sub>4</sub>	50	0.28	None
11	Mg <sub>3</sub> C <sub>4</sub>	100	0.26	None
12	Mg <sub>3</sub> C <sub>4</sub>	500	0.25	None
13	Mg <sub>3</sub> C <sub>4</sub>	3000	0.24	None
14	Mg <sub>3</sub> C <sub>4</sub>	7000	0.29	None
15	MgC <sub>2</sub>	8000	0.82	Visible
16	Mg <sub>2</sub> C <sub>3</sub>	20	0.53	Visible
17	None	0	1	Visible

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Reference Numerals

- 1 Front Panel
- 2 Front Glass Substrate
- 3 Scan Electrode
- 4 Sustain Electrode
- 5 Dielectric Layer
- 6 Protective Layer
- 7 Rear Panel
- 8 Rear Glass Substrate
- 9 Address Electrode
- 10 Electrode Protective Layer
- 11 Barrier Rib
- 12 Phosphor Layer
- 13 Discharge Space
- 14 Discharge Cell
- 101 Plasma Display Panel